

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZE191207202

FCC REPORT

Applicant: Advanced Sport Instruments SA

Address of Applicant: Avenue de Beaumont 5, 1012 Lausanne, Switzerland

Equipment Under Test (EUT)

Product Name: ASI3011

Model No.: Fieldwiz, AdMos

FCC ID: 2AZLFASI3011

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 20 Apr., 2021

Date of Test: 21 Apr, to 13 May., 2021

Date of report issued: 14 May., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





Version

| Version No. | Date | Description | |
|-------------|---------------|-------------|--|
| 00 | 14 May., 2021 | Original | |
| | | | |
| | | | |
| | | | |
| | | | |

| Tested by: | 11 lang | Date: | 14 May., 2021 | |
|------------|---------------|-------|---------------|--|
| | Test Engineer | | | |

Winner Thang
Project Engineer Reviewed by:

Date: 14 May., 2021





Contents

| | | | rage |
|---|------|---|------|
| 1 | C | OVER PAGE | 1 |
| 2 | VI | ERSION | 2 |
| 3 | | ONTENTS | |
| | | | |
| 4 | TI | EST SUMMARY | 4 |
| 5 | G | ENERAL INFORMATION | 5 |
| | 5.1 | CLIENT INFORMATION | 5 |
| | 5.2 | GENERAL DESCRIPTION OF E.U.T. | |
| | 5.3 | TEST MODE AND TEST SAMPLES PLANS | 5 |
| | 5.4 | MEASUREMENT UNCERTAINTY | 5 |
| | 5.5 | DESCRIPTION OF SUPPORT UNITS | 6 |
| | 5.6 | RELATED SUBMITTAL(S) / GRANT (S) | |
| | 5.7 | DESCRIPTION OF CABLE USED | |
| | 5.8 | ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD | |
| | 5.9 | LABORATORY FACILITY | |
| | 5.10 | LABORATORY LOCATION | |
| | 5.11 | TEST INSTRUMENTS LIST | |
| 6 | TI | EST RESULTS AND MEASUREMENT DATA | 8 |
| | 6.1 | CONDUCTED EMISSION | 8 |
| | 6.2 | RADIATED EMISSION | |
| 7 | TI | EST SETUP PHOTO | 17 |
| Ω | FI | IIT CONSTRUCTIONAL DETAILS | 10 |

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|--------------------|-------------------|--------|
| Conducted Emission | Part 15.107 | Pass |
| Radiated Emission | Part 15.109 | Pass |

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014

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5 General Information

5.1 Client Information

| Applicant: | Advanced Sport Instruments SA |
|--|-------------------------------|
| Address: Avenue de Beaumont 5, 1012 Lausanne, Switzerland | |
| Manufacturer: Advanced Sport Instruments SA | |
| Address: Avenue de Beaumont 5, 1012 Lausanne, Switzerland | |
| Factory: Optima International Inc. | |
| Address: 4F, No. 51, Wugong 6th Road, Wugu, Taipei 24891, Taiwan I | |

5.2 General Description of E.U.T.

| Product Name: | ASI3011 |
|------------------------|--|
| Model No.: | Fieldwiz, AdMos |
| Power supply: | Rechargeable Li-ion Battery DC3.7V, 400mAh |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |
| Remark: | Model No.: Fieldwiz, AdMos were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model and trademark name. |

5.3 Test Mode and test samples plans

| Operating mode | Detail description |
|----------------|-------------------------------|
| Charging mode | Keep the EUT in Charging mode |

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

Test Samples Plans:

| Samples Number | Used for Test Items | |
|----------------|----------------------------|--|
| 1# | Conducted Emission | |
| 2# | Radiated Emission | |
| 3# | EUT constructional details | |

Remark: Jian Yan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

5.4 Measurement Uncertainty

| Parameters | Expanded Uncertainty | |
|-------------------------------------|----------------------|--|
| Conducted Emission (9kHz ~ 30MHz) | ±1.60 dB (k=2) | |
| Radiated Emission (9kHz ~ 30MHz) | ±3.12 dB (k=2) | |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2) | |
| Radiated Emission (1GHz ~ 18GHz) | ±5.16 dB (k=2) | |
| Radiated Emission (18GHz ~ 40GHz) | ±3.20 dB (k=2) | |



Report No: JYTSZE191207202

5.5 Description of Support Units

| Manufacturer Description | | Model | S/N | FCC ID/DoC |
|--------------------------|---------|-------------------|-----|------------|
| / | Adapter | TPA-10D050200VU01 | / | / |

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

N/A

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.





5.11 Test Instruments list

| Radiated Emission: | Radiated Emission: | | | | | | |
|--------------------|--------------------|---------------|-------------|-------------------------|-----------------------------|--|--|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | | |
| 3m SAC | ETS | 9m*6m*6m | 966 | 01-19-2021 | 01-18-2024 | | |
| Loop Antenna | SCHWARZBECK | FMZB1519B | 00044 | 03-07-2021 | 03-06-2022 | | |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-03-2021 | 03-02-2022 | | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-03-2021 | 03-02-2022 | | |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1805 | 06-18-2020 | 06-17-2021 | | |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170582 | 11-18-2020 | 11-17-2021 | | |
| EMI Test Software | AUDIX | E3 | \ | /ersion: 6.110919 | b | | |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-03-2021 | 03-02-2022 | | |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-03-2021 | 03-02-2022 | | |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-03-2021 | 03-02-2022 | | |
| Spectrum analyzer | Rohde & Schwarz | FSP40 | 100363 | 11-18-2020 | 11-17-2021 | | |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-03-2021 | 03-02-2022 | | |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-03-2021 | 03-02-2022 | | |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-03-2021 | 03-02-2022 | | |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-03-2021 | 03-02-2022 | | |

| Conducted Emission: | | | | | | |
|---------------------|-----------------|------------|--------------------|-------------------------|-----------------------------|--|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101189 | 03-03-2021 | 03-02-2022 | |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-03-2021 | 03-02-2022 | |
| LISN | CHASE | MN2050D | 1447 | 03-03-2021 | 03-02-2022 | |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 06-18-2020 | 06-17-2021 | |
| Cable | HP | 10503A | N/A | 03-03-2021 | 03-02-2022 | |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | | | |





Test results and Measurement Data

6.1 Conducted Emission

| Test Requirement: | FCC Part 15 B Section 15.107 | | | | | | |
|-----------------------|---|-----------------------------------|-----------|--|--|--|--|
| Test Frequency Range: | 150kHz to 30MHz | 150kHz to 30MHz | | | | | |
| Class / Severity: | Class B | | | | | | |
| Receiver setup: | RBW=9kHz, VBW=30kHz | | | | | | |
| Limit: | Frequency range (MHz) | | (dBµV) | | | | |
| | , , , , | Quasi-peak | Average | | | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | |
| | 0.5-5 | 56 | 46 | | | | |
| | * Degraces with the legarithm | of the frequency | 50 | | | | |
| Test setup: | * Decreases with the logarithm | or the frequency. | | | | | |
| | Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m | Filter — AC powe | | | | | |
| Test procedure | The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement. | | | | | | |
| Test Instruments: | Refer to section 5.11 for details | Refer to section 5.11 for details | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |
| Test results: | Pass | | | | | | |
| E | | | | | | | |

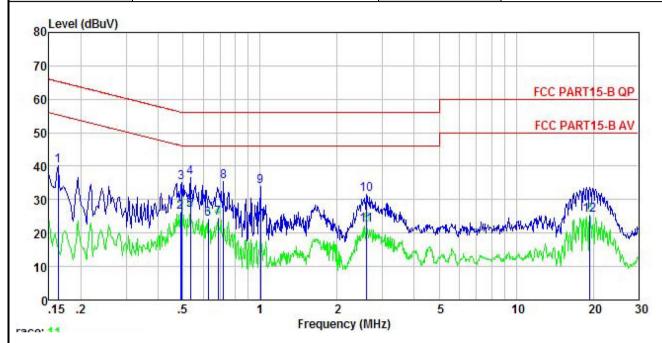
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Measurement data:

| Product name: | ASI3011 | Product model: | Fieldwiz |
|-----------------|------------------|--------------------------|------------------------|
| Test by: | Mike | Test mode: Charging mode | |
| Test frequency: | 150 kHz ~ 30 MHz | Phase: | Line |
| Test voltage: | AC 120 V/60 Hz | Environment: | Temp: 22.5°C Huni: 55% |



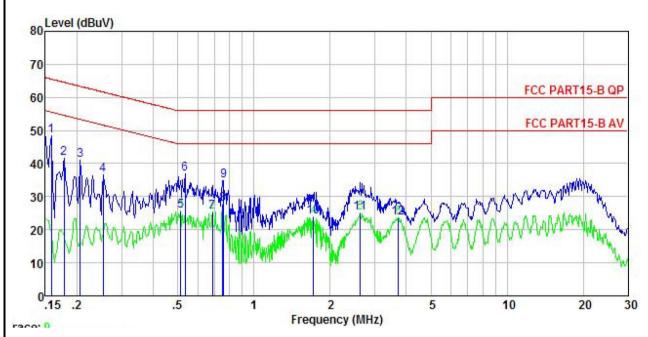
| MHz dBuV dB dB dB dB dBuV dBuV dB 1 0.162 29.95 -0.44 0.00 10.77 40.20 65.34 -25.14 Q 2 0.489 16.09 -0.39 -0.26 10.76 26.20 46.19 -19.99 A 3 0.494 25.21 -0.39 0.00 10.76 35.26 56.10 -20.84 Q 4 0.535 26.54 -0.39 0.00 10.76 36.55 56.00 -19.45 Q 5 0.535 16.94 -0.39 -0.36 10.76 26.95 46.00 -19.05 A 6 0.627 14.22 -0.38 -0.38 10.77 24.23 46.00 -21.77 A 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | Remark | Over Limit | Limit Line | Level | Cable Loss | Aux Factor | Factor | Kead Level | Freq | |
|--|---------|---------------|---------------|-------|---------------|---------------|-----------|---------------|--------|-----------|
| 2 0.489 16.09 -0.39 -0.26 10.76 26.20 46.19 -19.99 A 3 0.494 25.21 -0.39 0.00 10.76 35.26 56.10 -20.84 Q 4 0.535 26.54 -0.39 0.00 10.76 36.55 56.00 -19.45 Q 5 0.535 16.94 -0.39 -0.36 10.76 26.95 46.00 -19.05 A 6 0.627 14.22 -0.38 -0.38 10.77 24.23 46.00 -21.77 A 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | | <u>ab</u> | dBu∀ | dBu₹ | <u>ab</u> | <u>ab</u> | <u>ab</u> | dBu∀ | MHz | <u>80</u> |
| 6 0.627 14.22 -0.38 -0.38 10.77 24.23 46.00 -21.77 A 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | ĮΡ | -25.14 | 65.34 | 40.20 | 10.77 | 0.00 | -0.44 | 29.95 | 0.162 | 1 |
| 6 0.627 14.22 -0.38 -0.38 10.77 24.23 46.00 -21.77 A 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | lverage | -19.99 | 46.19 | 26.20 | 10.76 | -0.26 | -0.39 | 16.09 | 0.489 | 2 |
| 6 0.627 14.22 -0.38 -0.38 10.77 24.23 46.00 -21.77 A 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | QP - | -20.84 | 56.10 | 35.26 | 10.76 | 0.00 | -0.39 | 25.21 | 0.494 | 3 |
| 6 0.627 14.22 -0.38 -0.38 10.77 24.23 46.00 -21.77 A 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | ĮΡ | -19.45 | 56.00 | 36.55 | 10.76 | 0.00 | -0.39 | 26.54 | 0.535 | 4 |
| 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | lverage | -19.05 | 46.00 | 26.95 | 10.76 | -0.36 | -0.39 | 16.94 | 0.535 | 5 |
| 7 0.686 14.53 -0.38 -0.40 10.77 24.52 46.00 -21.48 A 8 0.720 25.38 -0.38 0.00 10.78 35.44 56.00 -20.56 Q 9 1.005 22.90 -0.38 0.00 10.87 33.85 56.00 -22.15 Q 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | lverage | -21.77 | 46.00 | 24.23 | 10.77 | -0.38 | -0.38 | 14.22 | 0.627 | 6 |
| 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | lverage | -21.48 | 46.00 | 24.52 | 10.77 | -0.40 | -0.38 | 14.53 | 0.686 | 7 |
| 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | QP - | -20.56 | 56.00 | 35.44 | 10.78 | 0.00 | -0.38 | 25.38 | 0.720 | 8 |
| 10 2.608 21.29 -0.43 0.00 10.93 31.54 56.00 -24.46 Q | ĮΡ | -22.15 | 56.00 | 33.85 | 10.87 | 0.00 | -0.38 | 22.90 | 1.005 | 9 |
| 11 0 200 10 10 0 42 0 05 10 02 00 25 42 00 02 25 4 | ĮΡ | -24.46 | 56.00 | 31.54 | 10.93 | 0.00 | -0.43 | 21.29 | 2.608 | |
| 11 2.608 12.10 -0.43 -0.25 10.93 22.35 46.00 -23.65 A | lverage | -23.65 | 46.00 | 22.35 | 10.93 | -0.25 | -0.43 | 12.10 | 2.608 | 11 |
| 12 19.428 14.13 -0.94 1.20 10.93 25.32 50.00 -24.68 A | lverage | -24.68 | 50.00 | 25.32 | 10.93 | 1.20 | -0.94 | 14.13 | 19.428 | 12 |

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



| Product name: | ASI3011 | Product model: | Fieldwiz |
|-----------------|------------------|----------------|-----------------------|
| Test by: | Mike | Test mode: | Charging mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase: | Neutral |
| Test voltage: | AC 120 V/60 Hz | Environment: | Temp: 22.5℃ Huni: 55% |



| | Freq | Read Level | LISN Factor | Aux Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|-----------------------|-------|---------------|----------------|---------------|---------------|-------|---------------|---------------|---------|
| 12 | MHz | dBu∜ | <u>ab</u> | <u>db</u> | <u>ab</u> | —dBu∀ | dBu√ | <u>d</u> B | |
| 1 | 0.158 | 38.30 | -0.68 | 0.01 | 10.77 | 48.40 | 65.56 | -17.16 | QP |
| 2 | 0.178 | 31.61 | -0.69 | 0.00 | 10.77 | 41.69 | 64.59 | -22.90 | QP |
| 3 | 0.206 | 30.85 | -0.69 | 0.00 | 10.76 | 40.92 | 63.36 | -22.44 | QP |
| 2 3 4 5 6 | 0.253 | 26.38 | -0.65 | 0.01 | 10.75 | 36.49 | 61.64 | -25.15 | QP |
| 5 | 0.513 | 15.55 | -0.65 | 0.03 | 10.76 | 25.69 | 46.00 | -20.31 | Average |
| | 0.535 | 26.66 | -0.65 | 0.03 | 10.76 | 36.80 | 56.00 | -19.20 | QP |
| 7 | 0.686 | 15.30 | -0.64 | 0.04 | 10.77 | 25.47 | 46.00 | -20.53 | Average |
| 7 8 9 | 0.751 | 17.54 | -0.64 | 0.05 | 10.79 | 27.74 | 46.00 | -18.26 | Average |
| 9 | 0.759 | 24.72 | -0.64 | 0.05 | 10.80 | 34.93 | 56.00 | -21.07 | QP |
| 10 | 1.716 | 13.36 | -0.66 | 0.15 | 10.94 | 23.79 | 46.00 | -22.21 | Average |
| 11 | 2.636 | 14.58 | -0.67 | 0.27 | 10.93 | 25.11 | 46.00 | -20.89 | Average |
| 12 | 3.720 | 12.91 | -0.69 | 0.46 | 10.90 | 23.58 | 46.00 | -22.42 | Average |

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





6.2 Radiated Emission

| Test Requirement: | FCC Part 15 B Se | FCC Part 15 B Section 15.109 | | | | | | |
|-----------------------|---|---|-----|--------------|----------|------------------|--|--|
| Test Frequency Range: | 30MHz to 25GHz | | | | | | | |
| Test site: | Measurement Dis | tance: 3m (| Sem | i-Anechoic (| Chamber) | | | |
| Receiver setup: | Frequency | Detecto | r | RBW | VBW | Remark | | |
| , 1000, 101 001ap | 30MHz-1GHz | Quasi-pe | ak | 120kHz | 300kHz | Quasi-peak Value | | |
| | Above 1GHz | Peak | | 1MHz | 3MHz | Peak Value | | |
| | Above IGHZ | RMS | | 1MHz | 3MHz | Average Value | | |
| Limit: | Frequenc | • | Lim | it (dBuV/m | @3m) | Remark | | |
| | 30MHz-88N | | | 40.0 | | Quasi-peak Value | | |
| | 88MHz-216I | | | 43.5 | | Quasi-peak Value | | |
| | 216MHz-960 | | | 46.0 | | Quasi-peak Value | | |
| | 960MHz-1G | ÞΗΖ | | 54.0 54.0 | | Quasi-peak Value | | |
| | Above 1GI | Hz | | | | Average Value | | |
| Test setup: | Tum 0.8m | Below 1GHz Antenna Tower Antenna Tower Antenna RF Test Receiver | | | | | | |
| | Above 1GHz | | | | | | | |
| | AE (Turnt | | | | | | | |
| Test Procedure: | The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. | | | | | | | |



Project No.: JYTSZE1912072



| | For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the |
|-------------------|---|
| | EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |
| Test Instruments: | Refer to section 5.11 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | All of the observed value above 6GHz ware the niose floor , which were no recorded |

Page 12 of 18

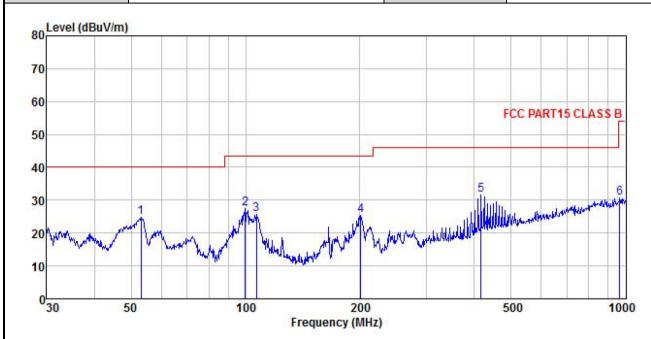




Measurement Data:

Below 1GHz:

| Product Name: | ASI3011 | Product Model: | Fieldwiz |
|-----------------|----------------|----------------|----------------------|
| Test By: | Mike | Test mode: | Charging mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization: | Vertical |
| Test Voltage: | AC 120V/60Hz | Environment: | Temp: 24°C Huni: 57% |



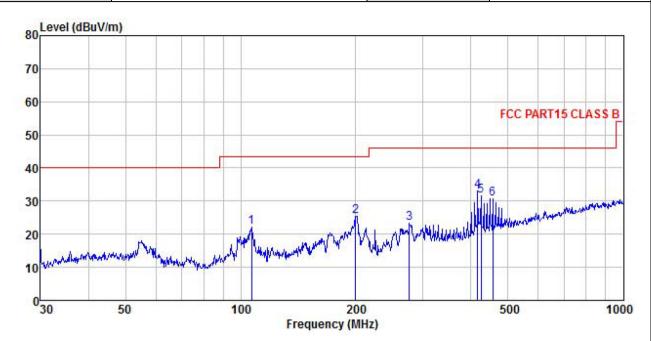
| | Freq | | ntenna Factor | | | Level | Limit Line | | |
|--------|---------|-------|------------------|------|-----------|---------------------|---------------------|-----------|----|
| - | MHz | dBu₹ | <u>dB</u> /π | | <u>ab</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>dB</u> | |
| 1 | 53.131 | 41.52 | 11.78 | 1.32 | 29.81 | 24.81 | 40.00 | -15.19 | QP |
| 2 | 99.878 | 42.63 | 12.41 | 1.94 | 29.53 | 27.45 | 43.50 | -16.05 | QP |
| 2 | 106.759 | 41.26 | 11.94 | 2.02 | 29.48 | 25.74 | 43.50 | -17.76 | QP |
| 4 | 200.688 | 40.56 | 10.64 | 2.87 | 28.83 | 25. 24 | 43.50 | -18.26 | QP |
| 4 5 | 416.179 | 41.70 | 15.69 | 3.12 | 28.81 | 31.70 | 46.00 | -14.30 | QP |
| 6 | 965.542 | 31.22 | 22.73 | 4.29 | 27.63 | 30.61 | 54.00 | -23.39 | QP |

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



| Product Name: | ASI3011 | Product Model: | Fieldwiz |
|-----------------|----------------|----------------|----------------------|
| Test By: | Mike | Test mode: | Charging mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization: | Horizontal |
| Test Voltage: | AC 120V/60Hz | Environment: | Temp: 24°C Huni: 57% |



| | Freq | | Intenna Factor | | | | | Over Limit | |
|---|---------|--------|-------------------|------|-----------|---------------------|---------------------|---------------|----|
| _ | MHz | −−dBuV | <u>dB</u> /m | | <u>ab</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>dB</u> | |
| 1 | 106.759 | 37.55 | 11.94 | 2.02 | 29.48 | 22.03 | 43.50 | -21.47 | QP |
| 2 | 199.986 | 40.68 | 10.60 | 2.87 | 28.83 | 25.32 | 43.50 | -18.18 | QP |
| 2 | 276.124 | 35.82 | 13.20 | 2.88 | 28.49 | 23.41 | 46.00 | -22.59 | QP |
| | 416.179 | 42.97 | 15.69 | 3.12 | 28.81 | 32.97 | 46.00 | -13.03 | QP |
| 5 | 425.028 | 41.34 | 15.90 | 3.14 | 28.83 | 31.55 | 46.00 | -14.45 | QP |
| 6 | 455.906 | 39.61 | 16.70 | 3.25 | 28.88 | 30.68 | 46.00 | -15.32 | QP |

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

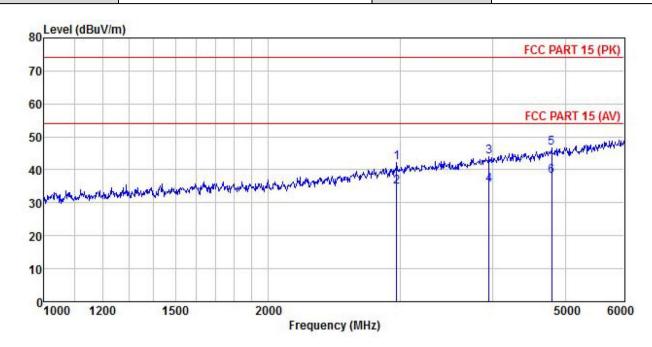
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





Above 1GHz:

| Product Name: | ASI3011 | Product Model: Fieldwiz | |
|-----------------|---------------|-------------------------|---------------------|
| Test By: | Mike | Test mode: | Charging mode |
| Test Frequency: | 1 GHz ~ 6 GHz | Polarization: | Vertical |
| Test Voltage: | AC 120V/60Hz | Environment: | Temp: 24℃ Huni: 57% |



| | Freq | | Intenna Factor | | | | Limit Line | Over Limit | |
|---|----------|-------|-------------------|------|-----------|---------------------|---------------------|---------------|---------|
| | MHz | —dBu⊽ | <u>dB</u> /m | | <u>dB</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>dB</u> | |
| 1 | 2972.460 | 48.18 | 28.45 | 5.32 | 41.53 | 42.30 | 74.00 | -31.70 | Peak |
| 2 | 2972.460 | 40.68 | 28.45 | 5.32 | 41.53 | 34.80 | 54.00 | -19.20 | Average |
| 3 | 3952.228 | 47.49 | 30.12 | 6.10 | 41.80 | 44.11 | 74.00 | -29.89 | Peak |
| 4 | 3952.228 | 38.75 | 30.12 | 6.10 | 41.80 | 35.37 | 54.00 | -18.63 | Average |
| 5 | 4796.035 | 48.23 | 30.99 | 6.81 | 41.83 | | | -27.36 | |
| 6 | 4796.035 | 39.63 | 30.99 | 6.81 | 41.83 | 38.04 | 54.00 | -15.96 | Average |

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





| roduct Name: | ASI30 |)11 | | | | Pro | duct Model: | Fieldwiz | | |
|--|---|--|-----------------------|--|---|--------|-------------------------------------|-------------------------------|-----------|--|
| est By: | Mike | Mike 1 GHz ~ 6 GHz AC 120V/60Hz | | | | | t mode: | Charging mode Horizontal | | |
| est Frequency: | 1 GH | | | | | | arization: | | | |
| est Voltage: | AC 12 | | | | | | rironment: | Temp: 24°C | Huni: 57% | |
| Level (dBuV/i | m) | | | | | | | | | |
| 80 Level (dbdv// | , | | | | | | | FCC PAR | T 15 (PK) | |
| 70 | | | | | | | | 1510 | - M | |
| 60 | | | | | | | | | | |
| | | | | | | | | FCC PAR | _ | |
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| 30 May | hyand <mark>a</mark> h manandaha | alamphi, phosps | A Super State of Asia | AND NO. | 2 | | | | | |
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| | h, marine (m. n. | or the state of th | of the second | NAME OF THE PROPERTY OF THE PR | 2 | | | | | |

| | Freq | KeadAntenna Level Factor | | Cable Preamp Loss Factor | | | Limit Line | | Remark |
|--------|----------|-----------------------------|-------|-----------------------------|-----------|---------------------|---------------------|-----------|---------|
| | MHz | dBu∇ | | | <u>dB</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>ab</u> | |
| 1 | 2669.481 | 48.35 | 27.80 | 5.01 | 41.80 | 41.13 | 74.00 | -32.87 | Peak |
| 2 | 2669.481 | 39.68 | 27.80 | 5.01 | 41.80 | 32.46 | 54.00 | -21.54 | Average |
| 3 | 3902.968 | 49.48 | 29.99 | 6.10 | 41.80 | 45.97 | 74.00 | -28.03 | Peak |
| 4 5 | 3902.968 | 40.80 | 29.99 | 6.10 | 41.80 | 37.29 | 54.00 | -16.71 | Average |
| 5 | 5625.198 | 48.08 | 32.63 | 7.40 | 41.83 | 48.97 | | | |
| 6 | 5625.198 | 39.48 | 32.63 | 7.40 | 41.83 | 40.37 | 54.00 | -13.63 | Average |

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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